ABSTRACT

The *TCL1* gene family, located on the human chromosome at the 14q32.1 locus, are implicated in the development of T-cell malignancies. The present invention discloses the identification and characterization of new members of this gene family, the *TCL-1b*, *TNG1* and *TNG2* genes. The *TCL-1b*, *TNG1* and *TNG2* gene sequences are expressed at very low levels in normal bone marrow and peripheral lymphocytes, but are activated in T-cell leukemia and lymphoma by rearrangements of the 14q32.1 locus. The present invention relates to the identification of these chromosome 14 abnormalities, and methods for detecting and treating any T-cell malignancies that develop, as well as preventing the development of these T-cell malignancies.